Title: **Network Engineer**	Effective Date: August 12, 2016	Grade:	Job Category: XVII Professional
Prior Title: Network Engineer	Prior Effective Date: June 3, 2016	Grade: XVII	Page: 1 of 1

CHARACTERISTICS OF WORK

This position operates under the limited direction of the Network Manager to assist in the management of one of the largest fiber optic networks in the State of Arkansas. This position supports and maintains voice, data, video, and wireless network services. This includes planning, designing, installing, monitoring, configuring, and upgrading local area networks (LANS), and wide area networks (WANS) throughout the Department. The Network Engineer also diagnoses and resolves network hardware and software problems of high complexity in a timely manner so that end users can accomplish business tasks. The current hardware environment includes Cisco, F5 and Avaya equipment.

EXAMPLES OF WORK

The following examples are intended only as illustrations of various types of work performed. No attempt is made to be exhaustive. Related, similar, or other logical duties are performed as assigned. The Department may require employees to perform functions beyond those contained in job descriptions. The Department may modify job descriptions based on Department needs. The Arkansas State Highway and Transportation Department is an "at will" employer.

- Manage the design and deployment of LANs, WANs, and wireless networks including routers, firewalls, switches, and UPSs.
- Configure networks to ensure reliable operation, monitor network performance and troubleshoot problems.
- Ensure network connectivity of all servers, workstations, telephone equipment, fax machines, and other network appliances.
- Assist in managing servers, including performing server and network security audits, and system backups and recovery; and participate in managing all network and server security solutions.
- Administer end user accounts, permissions, and access rights.
- Provide guidance and instruction to junior members of the team.
- Work with third-party support and equipment vendors to resolve problems.
- Contribute to team/committee meetings with vendors, staff, and end users to help ensure the success of complex network related projects.
- Assist in developing, implementing and maintaining policies, procedures and associated training plans for network and resource administration and appropriate use.
- Assist in developing business continuity and disaster recovery plans, maintain current knowledge of plans, and respond to emergency network outages in accordance with the plans.

MINIMUM REQUIREMENTS

The educational equivalent to a bachelor's degree from an accredited college or university in computer science, engineering, or related field plus eight years of advanced network experience. Advanced knowledge of network design, troubleshooting, network hardware and software configuration, performance tuning, LAN, wireless networks, firewalls, and load balancers. Leadership ability, project management ability, and problem solving skills. CCNA (Cisco Certified Network Associate) certification preferred. Well-developed sense of urgency and follow-through. Strong communication skills. Occasional overnight emergency travel.

("Accredited" means the educational institution or program is accredited by an accrediting organization recognized either by the United States Department of Education or by the Council for Higher Education Accreditation.)

A criminal background check will be required to determine suitability of employment, and failure to meet these standards may cause the applicant to be rejected or terminated from that position.

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